

**IN THE CLAIMS:**

The following is a complete listing of all pending claims.

1. (Previously Presented) A method for determining behavior patterns of users of a telecommunication system based on information collected from the telecommunication system, the method comprising:

defining at least one variable or a combination of variables of the telecommunication system;

filtering user-specific information corresponding to the defined at least one variable or the combination of variables from the information collected from the telecommunication system; and

classifying the users of the telecommunication system based on the filtered user-specific information into various classes indicative of a user's behavior patterns during use of the telecommunication system.

2. (Previously Presented) The method of claim 1, wherein said user-specific information is filtered from the information collected in real time from the telecommunication system.

3. (Previously Presented) The method of claim 1, further comprising:

saving the filtered user-specific information for later analysis.

4. (Previously Presented) The method of claim 1, further comprising:  
statistically analyzing the classified information after the classification.
5. (Previously Presented) The method of claim 4, further comprising:  
regulating parameters essential for the quality of service of the telecommunication system based on said statistical analysis.
6. (Previously Presented) The method of claim 4, further comprising:  
drawing conclusions based on said statistical analysis, wherein the conclusions are drawn about the behavior pattern of a certain group of users in the telecommunication system.
7. (Previously Presented) The method of claim 1, wherein the classifying comprises classifying the users into the various classes indicative of a user's behavior patterns defined in connection with the definition of variables.
8. (Previously Presented) The method of claim 1, further comprising:  
changing the definitions of the classes of behavior patterns used in the classification of users.
9. (Previously Presented) The method of claim 8, further comprising:

classifying said filtered user-specific information into previously presented classes of behavior patterns.

10. (Previously Presented) The method of claim 1, wherein at least one of the variables is a type of contact of the user.

11. (Previously Presented) The method of claim 1, wherein at least one of the variables is a type of system service.

12. (Previously Presented) The method of claim 1, wherein said telecommunication system is a mobile communication system.

13. (Previously Presented) A system for determining users' patterns of behavior in a telecommunication system, said system comprising:

defining means for defining at least one variable or a combination of variables of the telecommunication system;

filtering means for filtering user-specific information corresponding to the at least one variable or the combination of variables from the user-specific information received from the telecommunication system; and

classifying means for classifying users of the telecommunication system based on said filtered user-specific information into various classes indicative of a user's behavior patterns during use of the telecommunication system.

14. (Previously Presented) The system of claim 13, wherein the system is configured to process the information received in real time from the telecommunication system.

15. (Previously Presented) The system of claim 13, wherein the system comprises a memorizing means for saving said filtered user-specific information.

16. (Previously Presented) The system of claim 13, wherein the system comprises analysis means for statistically analyzing the classification of the behavior patterns of users received from the classifying means and/or for defining previously presented classes of behavior patterns.

17. (Previously Presented) The system of claim 13, wherein the system further comprises regulating means for regulating the values of parameters essential for the quality of service of the telecommunication system based on the information received from the analysis means.

18. (Previously Presented) The system of claim 13, wherein said telecommunication system is a mobile communication system.

19. (Previously Presented) A system for determining behavior patterns of users of a telecommunication system based on information collected from the telecommunication system, the system comprising:

at least one base station;

at least one mobile services switching center configured to establish a connection to a mobile station and further configured to generate connection information;

at least one network management system configured to monitor and manage an operation of the telecommunication system;

a customer register configured to receive the connection information from the at least one mobile services switching center;

a statistical unit configured to receive statistical information from the at least one network management system;

a filter configured to filter said user-specific information corresponding to at least one variable or a combination of variables from the user-specific information received from the telecommunication system, wherein said at least one variable or the combination of variables are defined in the telecommunication system; and

a classifier configured to classify users of the telecommunication system based on said filtered user-specific information into various classes indicative of a user's behavior

patterns during use of the telecommunication system.

20. (Previously Presented) The system of claim 19, wherein the system is configured to process the information received in real time from the telecommunication system.

21. (Previously Presented) The system of claim 19, further comprising: a memory configured to save said filtered user-specific information.

22. (Previously Presented) The system of claim 19, further comprising: an analyzer configured to analyze at least one of statistical analysis of the classification of the behavior patterns of users received from the classifier and defining previously presented classes of behavior patterns.

23. (Previously Presented) The system of claim 19, further comprising: a regulator configured to regulate the values of parameters essential for the quality of service of the telecommunication system on the basis of the information received from the analysis means.

24. (Previously Presented) The system of claim 19, wherein said telecommunication system is a mobile communication system.

25. (Cancelled)